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PTO/SB/21 (09-06)

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/765,493
	Filing Date	January 26, 2004
	First Named Inventor	PARK, Edward H.
	Art Unit	1754
	Examiner Name	Not Yet Assigned
Total Number of Pages in This Submission	Attorney Docket Number	03-0054 (8470-000027)

ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Technology Center (TC) <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Form PTO 1449; Copies of 11 Office Actions Issued in Related Co-Pending Cases; Copies of 17 Foreign Patents; Copies of 7 "Other" Documents; and Return- Receipt Postcard
Remarks The Commissioner is hereby authorized to charge any additional fees that may be required under 37 CFR 1.16 or 1.17 to Deposit Account No. 08-0750. A duplicate copy of this sheet is enclosed.		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Harness, Dickey & Pierce, P.L.C.	Attorney Name David L. Suter	Reg. No. 30,692
Signature			
Date	December 6, 2006		

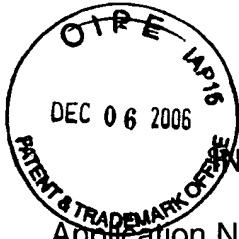
CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.			
Typed or printed name	David L. Suter	Express Mail Label No.	EV 757 778 485 US (12/6/2006)
Signature		Date	December 6, 2006

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

EV 757 778 485 US



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 10/765,493
Filing Date: January 26, 2004
Applicant: PARK, Edward H.
Group Art Unit: 1754
Examiner: Not Yet Assigned
Title: DYNAMIC VULCANIZATION OF ELASTOMER WITH IN-SITU POLYMERIZATION
Attorney Docket: 03-0054 (8470-000027)

Mail Stop AMENDMENT
Director of the United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION

The patents, publications and other information requested to be considered by the Office (except unpublished U.S. patent applications) are listed on Form 1449 attached hereto.

II. COPIES

A. ☒ Submitted herewith is a legible copy of (i) each foreign patent; (ii) each publication or that portion which caused it to be listed, other than U.S. patents and U.S. patent application publications unless required by the Office; (iii) each unpublished U.S. application listed below in Section IV (i.e., including the specification, claims, and any drawing of the application, or that portion of the application which caused it to be listed, including any claims directed to that portion), except for such applications filed on or after June 30, 2003, pursuant to

the Waiver of the Copy Requirement in 37 C.F.R. 1.98 (OG Notice dated October 19, 2004); and (iv) all other information or that portion which caused it to be listed.

B. ☐ Any patents, publications or other information which are listed on Form 1449 or on the copies of PTO-892, but which are not enclosed herewith, were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

U.S. Serial Number

U.S. Filing Date

C. ☐ This is a PCT application in the entry of the National Phase in the United States. A copy of the International Search Report is attached for the Examiner's information. The documents listed on the International Search report are listed on the attached Form 1449 for consideration by the Examiner and for listing on any patent resulting from this application. If the International Search report was from the US, EPO, or JPO search authorities, copies of these references should have been supplied to the USPTO under the trilateral agreement and are believed to be in the file of the above-identified application. (MPEP 1893.03(g).)

III. CONCISE EXPLANATION OF THE RELEVANCE (check at least one box)

A. ☒ Except as may be indicated below in (B), all of the patents, publications or other information are in the English language (concise explanation not required).

B. ☐ A concise explanation of the relevance of each patent, publication or other information listed that is not in the English language is as follows (see 37 C.F.R. § 1.98(a)(3)):

1. ☐ See the attached foreign patent office communication from a counterpart foreign application:

2. ☐ English translations are provided:

3. ☐ Other:

C. ☒ The following additional information is provided for the Examiner's consideration.

Enclosed for the Examiner's consideration are copies of the Office Actions issued in related co-pending patent applications as indicated below:

U.S. Patent Application Serial No. 10/463,801 – OA Mailed 7/15/2005
U.S. Patent Application Serial No. 10/463,801 – OA Mailed 12/9/2005
U.S. Patent Application Serial No. 10/463,801 – OA Mailed 5/11/2006
U.S. Patent Application Serial No. 10/620,213 – OA Mailed 3/22/2005
U.S. Patent Application Serial No. 10/873,084 – OA Mailed 10/18/2006
U.S. Patent Application Serial No. 10/771,693 – OA Mailed 3/21/2006
U.S. Patent Application Serial No. 10/813,527 – OA Mailed 9/9/2005
U.S. Patent Application Serial No. 10/813,527 – OA Mailed 3/9/2006
U.S. Patent Application Serial No. 10/424,642 – OA Mailed 12/13/2005
U.S. Patent Application Serial No. 10/760,662 – OA Mailed 12/14/2005
U.S. Patent Application Serial No. 10/760,662 – OA Mailed 6/13/2006

IV. CROSS REFERENCE TO RELATED APPLICATION(S)

A. ☒ The Examiner is advised that the following co-pending application(s) contain(s) subject matter that may be related to the present application. By bringing this(these) application(s) to the Examiner's attention, Applicant(s) does (do) not waive the confidentiality provisions of 35 U.S.C. § 122.

<u>Serial No.</u>	<u>Filing Date</u>	<u>Art Unit</u>
11/170611	6/29/2005	1713
11/167458	6/27/2005	3673
11/171720	6/30/2005	1711
11/332872	1/13/2006	1711

V. THIS IDS IS BEING FILED UNDER

A. ☒ **37 C.F.R. § 1.97(b):** (check only one box)

1. ☐ within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d) (37 C.F.R. § 1.97(b)(1)). No fee or certification is required.

2. ☐ within three months of the date of entry of the national stage as set forth in § 1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or certification is required.

3. ☒ before the mailing of a first Office Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. §

1.97(e) below; or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p).

4. ☐ before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No fee or certification is required.

B. ☐ **37 C.F.R. § 1.97(c):** (check only one box)

before the mailing date of either any Final Office Action under 37 C.F.R. § 1.113, a Notice of Allowance under 37 C.F.R. § 1.311, or an action that otherwise closes prosecution.

1. ☐ No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).

2. ☐ See the certification below. No fee is required.

C. ☐ **37 C.F.R. § 1.97(d):**

after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee.

1. ☐ See the certification below. A fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).

VI. **CERTIFICATION UNDER 37 C.F.R. § 1.97(e):** (check only one box)

The undersigned hereby certifies that:

A. ☐ each item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(1)). See further statement under 37 C.F.R. 1.704(d) below in section VII, if applicable; or

B. ☐ no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(2)).

C. ☐ some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that

each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS.

VII. STATEMENT UNDER 37 C.F.R. 1.704(d)

The undersigned hereby states that:

☐ each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this IDS.

VIII. PAYMENT OF FEES (check only one box, if applicable)

A. ☐ A check in the amount of \$180.00 is enclosed for the above-identified fee.

B. ☐ Please charge Deposit Account No. 08-0750 in the amount of \$180.00 for the above-identified fee. A duplicate copy of this paper is attached.


Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. § 1.16 or § 1.17 to Deposit Account No. 08-0750.

The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art. Furthermore, this Information Disclosure Statement shall not be construed as a representation that a search has been made.

If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 08-0750.

Respectfully submitted,

Dated: December 6, 2006

By: 
David L. Suter
Reg. No. 30,692

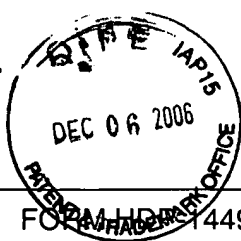
Harness, Dickey & Pierce, P.L.C.
P.O. Box 828
Bloomfield Hills, Michigan 48303
(248) 641-1600

CORRESPONDENCE ADDRESS:

CUSTOMER NO. 29293

Freudenberg-NOK General Partnership
Legal Department
47690 East Anchor Court
Plymouth, MI 48170-2455
Ph: (734) 354-5445
Fax: (734) 451-1445

DLS/sem



FORM PTO-1449 (Based on Form PTO-1449)

PATENT AND TRADEMARK OFFICE
INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Sheet 1 of 5

ATTORNEY DOCKET No.

SERIAL No.

03-0054 (8470-000027)

10/765,493

APPLICANT

PARK, Edward H.

FILING DATE

GROUP

January 26, 2004

1754

U.S. PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
1.		2002/0091205	7/11/2002	Brewer et al.		
2.		2002/0099142	7/25/2002	Faulkner		
3.		2002/0113066	8/22/2002	Stark et al.		
4.		2002/0198320	12/26/2002	Chmielewski et al.		
5.		2003/0026995	2/6/2003	Duchesne et al.		
6.		2003/0138655	7/24/2003	Watanabe et al.		
7.		2004/0183702	9/23/2004	Nachtigal et al.		
8.		2004/0260023	12/23/2004	Park et al.		
9.		2005/0155690	7/21/2005	Park		
10.		2005/0167928	8/4/2005	Park et al.		
11.		2005/0171282	8/4/2005	Park		
12.		2005/0222337	10/6/2005	Park		
13.		2005/0272872	12/8/2005	Park		
14.		2005/0275565	12/15/2005	Nachtigal et al.		
15.		2005/0281973	12/22/2005	Park		
16.		2005/0288434	12/29/2005	Sugiura et al.		3/27/2003
17.		2006/0004126	1/5/2006	Park et al.		
18.		2006/0142467	6/29/2006	Park		
19.		2006/0142491	6/29/2006	Park		
20.		2006/0142492	6/29/2006	Park		
21.		2006/0148954	7/6/2006	Park et al.		

Examiner:

Date Considered:

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM HDP-1449 (Based on Form PTO-1449) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) Sheet 2 of 5	ATTORNEY DOCKET NO.	SERIAL No.
	03-0054 (8470-000027)	10/765,493
	APPLICANT	
	PARK, Edward H.	
	FILING DATE	GROUP
	January 26, 2004	1754

U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
22.		3,538,028	11/3/1970	Morgan		
23.		3,787,341	1/22/1974	Aron		
24.		4,311,628	1/19/1982	Abdou-Sabet et al.		
25.		4,328,140	5/4/1982	Singletary et al.		
26.		4,419,499	12/6/1983	Coran et al.		
27.		4,530,881	7/23/1985	Santoso et al		
28.		4,572,516	2/25/1986	Symons et al.		
29.		4,624,978	11/25/1986	Frayar		
30.		4,656,228	4/7/1987	Richter et al.		
31.		4,696,976	9/29/1987	Ellerbe III et al.		
32.		5,006,594	4/9/1991	Rees		
33.		5,095,072	3/10/1992	Kobayashi et al.		
34.		5,219,931	6/15/1993	Siol et al.		
35.		5,331,040	7/19/1994	Lee		
36.		5,371,143	12/6/1994	Novak et al.		
37.		5,397,832	3/14/1995	Ellul		
38.		5,459,202	10/17/1995	Martinez et al.		
39.		5,548,028	8/20/1996	Tabb		
40.		5,585,152	12/17/1996	Tamura et al.		
41.		5,700,866	12/23/1997	Tabb		

Examiner:	Date Considered:
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EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM HDP-1449 (Based on Form PTO-1449) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) Sheet 3 of 5	ATTORNEY DOCKET NO.	SERIAL NO.
	03-0054 (8470-000027)	10/765,493
	APPLICANT	
	PARK, Edward H.	
	FILING DATE	GROUP
	January 26, 2004	1754

U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
42.		5,723,544	3/3/1998	Lee		
43.		5,962,589	10/5/1999	Matsumoto et al.		
44.		6,147,158	11/14/2000	Chmielewski		
45.		6,162,385	12/19/2000	Grosse-Puppendahl et al.		
46.		6,312,639	11/6/2001	Ertle et al.		
47.		6,410,630	6/25/2002	Hoover et al.		
48.		6,500,374	12/31/2002	Akioka et al.		
49.		6,656,831	12/2/2003	Lee et al.		
50.		6,663,966	12/16/2003	Mhetar		
51.		6,774,171	8/10/2004	Kassa et al.		1/9/2003
52.		6,872,325	3/29/2005	Bandyopadhyay et al.		9/9/2002
53.		7,022,769	4/4/2006	Park		7/15/2003
54.		7,098,270	8/29/2006	Hochgesang et al.		9/9/2002

FOREIGN PATENT DOCUMENTS							
Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes	No
1.		JP 2001-336679	12/7/2001	Japan		Abstract	
2.		JP 62-236841	10/16/1987	Japan		Abstract	
3.		JP 05-186606	7/27/1993	Japan		Abstract	
4.		JP 2000-079928	3/21/2000	Japan		Abstract	

Examiner:	Date Considered:
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EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM HDP-1449 (Based on Form PTO-1449) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) Sheet 4 of 5	ATTORNEY DOCKET NO.	SERIAL No.
	03-0054 (8470-000027)	10/765,493
	APPLICANT	
	PARK, Edward H.	
	FILING DATE	GROUP
	January 26, 2004	1754

FOREIGN PATENT DOCUMENTS							
Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes No	
5.		JP 58-032655	2/25/1983	Japan		Abstract	
6.		JP 62-011767	1/20/1987	Japan		Abstract	
7.		WO 00/11073	3/2/2000	WIPO		N/A	
8.		WO 01/98405	12/27/2001	WIPO		N/A	
9.		WO 01/48077	7/5/2001	WIPO		N/A	
10.		EP 0148719	7/17/1985	EPO		N/A	
11.		EP 0239707	10/7/1987	EPO		Abstract	
12.		EP 0254307	12/27/1991	EPO		N/A	
13.		EP 0304843	3/3/1993	EPO		N/A	
14.		EP 0432911	6/19/1991	EPO		N/A	
15.		EP 0681113	11/8/1995	EPO		N/A	
16.		EP 0714944	6/5/1996	EPO		Abstract	
17.		EP 1209203	5/29/2002	EPO		N/A	

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials	
1.		"Polyurethanes" Encyclopedia of Polymer Science & Engineering, Vol. 13, Second Edition (Date Unknown). (Pages 274-278).
2.		Webpage: "Dyneon™ Fluorothermoplastics" Accessed from 3M Manufacturing and Industrial and Downloaded May 8, 2003. (2 pages).

Examiner:	Date Considered:
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EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM HDP-1449 (Based on Form PTO-1449) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) Sheet 5 of 5	ATTORNEY DOCKET NO.	SERIAL NO.
	03-0054 (8470-000027)	10/765,493
	APPLICANT	
	PARK, Edward H.	
	FILING DATE	GROUP
	January 26, 2004	1754

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials	
3.		Moore, Michael J. "Silanes as Rubber-to-Metal Bonding Agents," 160th Meeting of the Rubber Division, American Chemical Society, Cleveland, Ohio, Paper No. 105, (2001). (17 pages).
4.		Material Safety Data Sheet "DuPont™ TPV 60A01 and 80A01", C.S. Wong, (September 18, 2001). (9 pages).
5.		DuPont "Grades for Customer Evaluation" - TPV 60A and TPV 80A." (3 pages).
6.		Solvay Solexis: "Product Data Sheet: Tecnoflon FPA 1" available at www.solvaysolexis.com . Copyright 2003. (2 pages).
7.		Sasol: Sasol Olefins and Surfactants available at www.sasoltechdata.com . (20 pages).

Examiner:	Date Considered:
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EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.